FIG. 1

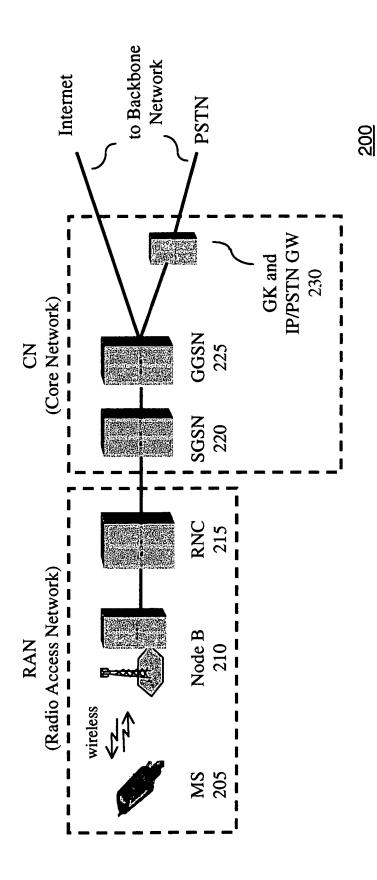


FIG. 2

Chuah 54

QoS IE 300

Prior Art

	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13
1			ISS	ass		eous				 ,	ındlingi ity		
7			Reliability Class	Precedence Class	nput	Delivery of erroneous SDU				or ratio	Traffic Handling Priority		
3	EI	vice IE	Relia	Prece	Mean Throughput	Deliver	ze	uplink	ownlink	SDU error ratio	<u> </u>	uplink	ownlink
4	service I	y of Ser	Si	0 spare	Mea	y Order	SDU siz	Rate for	ate for d			rate for	ate for d
2	Quality of Service IEI	Length of Quality of Service IE	Delay Class			Delivery Order	Maximum SDU size	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink		Transfer delay	Guaranteed bit rate for uplink	Guaranteed bit rate for downlink
9	Õ	Length	Q	Peak Throughput	0	SS	N	Maxin	Maxim	Residual BER	Transfe	Guara	Guarant
7			0 rre	Peak Th	0 spare	Fraffic Class				Residu			1
∞			0 spare		0	${ m Tr}$							

Chuah 54

FIG. 3

Prior Art

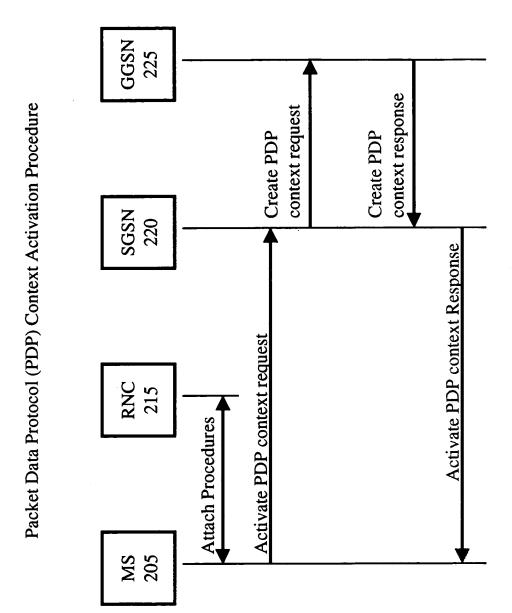


FIG. 4

	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13	Octet 14	Octet 15	Octet 16	Octet 17	Octet 18
2 1			Reliability Class	Precedence Class	hput	Downlink Delivery of erroneous SDU				Downlink SDU error ratio	Traffic Handling Priority	uplink	lownlink	uplink	ownlink	Uplink Delivery	Uplink SDU error ratio	Spare
т	EI	Quality of Service IEI Length of Quality of Service IE Delay Class Relia	Prece	Mean Throughput	i 	ì	uplink	ownlink	1 ():		it rate for	rate for d	it rate for	rate for d	Upli	直	 	
4	Service Ility of Ser		ass	0 spare	Mea	Downlink Deliyery Order	Maximum SDU size	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink	Dov	delay	Maximum Desired Guaranteed bit rate for uplink	Maximum Desired Guaranteed bit rate for downlink	Minimum Desired Guaranteed bit rate for uplink	Minimum Desired Guaranteed bit rate for downlink	Uplink Delivery Order	U	1 1 1
'n	Quality of		Delay Cl	out		Dov	Maximu	cimum Bi	mum Bit	I BER	Downlink Transfer delay	sired Gua	ired Guar	sired Gua	red Guar	Deliving the state of the state	BER	Uplink Transfer delay
9			Peak Throughput	R	link Class		May	Maxi	Downlink Residual BER	Ownlink	imum De	num Des	imum De	num Desi	rk Class	Uplink Residual BER	Uplink 1	
8 7			0 snare	Peak	T	Downlink Traffic Class	 			Downlin	I	Max	Maxii	Min	Minir	Uplink Traffic Class	Uplink	
QoS IE	400		0		Ω	j 												

rosken or shed

FIG. 5

 Traffic Class Field Value	0 000 Subscribed traffic class/Reserved	0 001 Conversational	0 010 Streaming	0 011 Interactive	0 Background	0 101 Reserved	0 Reserved	0 Reserved	1 Subscribed traffic class/Reserved	1 Conversational	1 O10 Streaming	1 Interactive	1 Background	1 First try Streaming, then Interactive	1 First try Interactive, then Background	
D bit	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	,

FURFURITED THATE

C)
C	;
П	-

	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13	Octet 14	Octet 15	Octet 16	Octet 17	Octet 18
5 4 3 2 1	Quality of Service IEI	Length of Quality of Service IE	Delay Class Reliability Class	out 0 Precedence Class		Delivery Order of erroneous SDU	ze	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink	Downlink SD	Downlink Transfer delay Traffic Handling	Maximum Desired Guaranteed bit rate for uplink	Maximum Desired Guaranteed bit rate for downlink	Minimum Desired Guaranteed bit rate for uplink	Minimum Desired Guaranteed bit rate for downlink	Uplink Uplink Delivery Delivery Order of erroneous SDI	Uplink	Uplink Transfer delay
8 7 6		U 0 spare	Peak Throughput	D T R	Downlink Traffic Class		Max	Maxi	Downlink Residual BER	Downlink	Maximum De	Maximum Des	Minimum De	Minimum Des	Uplink Traffic Class	Uplink Residual BER	Uplink 7	
Asymmetric QoS IE	200																	

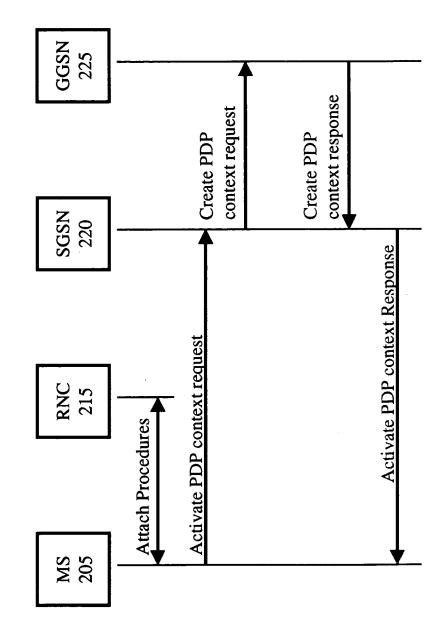
rozeren en en en en en

FIG. 7

Traffic Class	Subscribed traffic class/Reserved	Conversational	Streaming	Interactive	Background	Reserved	Reserved	Reserved	Interactive to Streaming	Best Effort to Interactive	Best Effort to Streaming, else to Interactive
Traffic Class Field Value	000	100	010	011	100	101	110	111	101	110	111
D bit	0	0	0	0	0	0	0	0	0	0	0
U bit	0	0	0	0	0	0	0	0	1	1	1

FIG. 8

Packet Data Protocol (PDP) Context Activation Procedure with asymmetric QoS IE



Asymmetric QoS negotiation



